

HIGH-AVAILABILITY DISK CONTROL DEVICE AND FAILURE RECOVERY PROCESSING METHOD THEREOF

ABSTRACT OF THE DISCLOSURE

This invention provides a high-availability disk control device and a failure recovery processing method thereof. In one embodiment, a disk control device comprises a plurality of host interface modules configured to interface with a computer; a plurality of disk interface modules configured to interface with a storage device; a plurality of cache memory modules configured to temporarily store data read from or written to the storage device; and a switch network connecting the various modules. Each of the host interface modules is configured to execute data transfers between the computer and the cache memory modules, and each of the disk interface modules is configured to execute data transfers between the storage device and the cache memory modules. Each of the various modules includes identification information providing unique identification within the switch network. The switch network includes a memory containing path information based on the identification information for data transfer paths among the various modules. Each cache memory module is configured to monitor failure in that module and to control changing of the path information relating to that module in the memory of the switch network.

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